**Electronic Supplementary Information**

# Simultaneous detection of paracetamol and 4-aminophenol at nanomolar level using biocompatible cysteine substituted phthalocyanine

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**The Electronic Supplementary Information contains 10 pages and 9 figures**

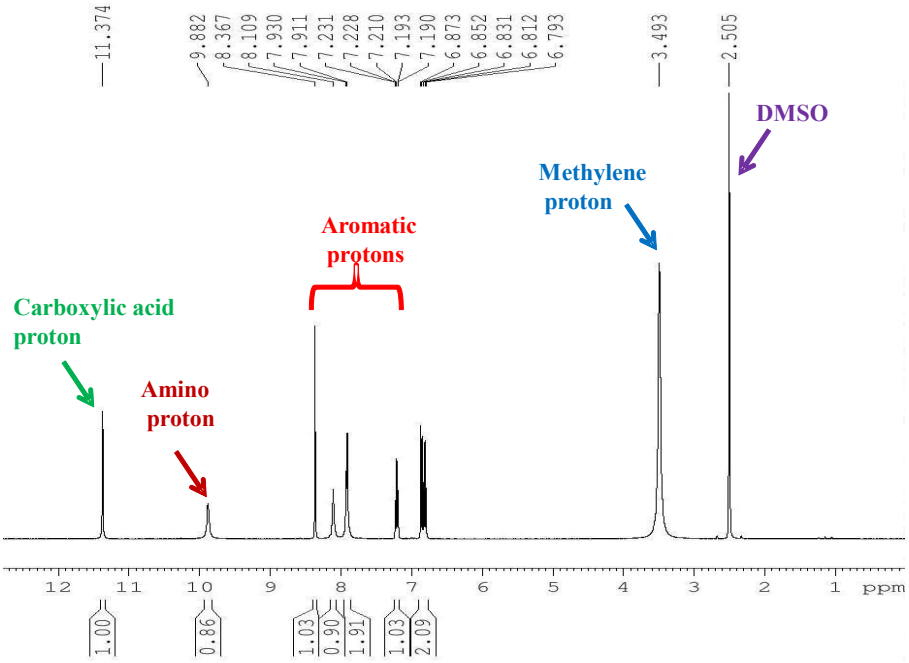


**Fig. S1.** *[1]H*-NMR spectrum of the 2-amino-3-[(3,4-dicyanophenyl)thio]propanoic acid.

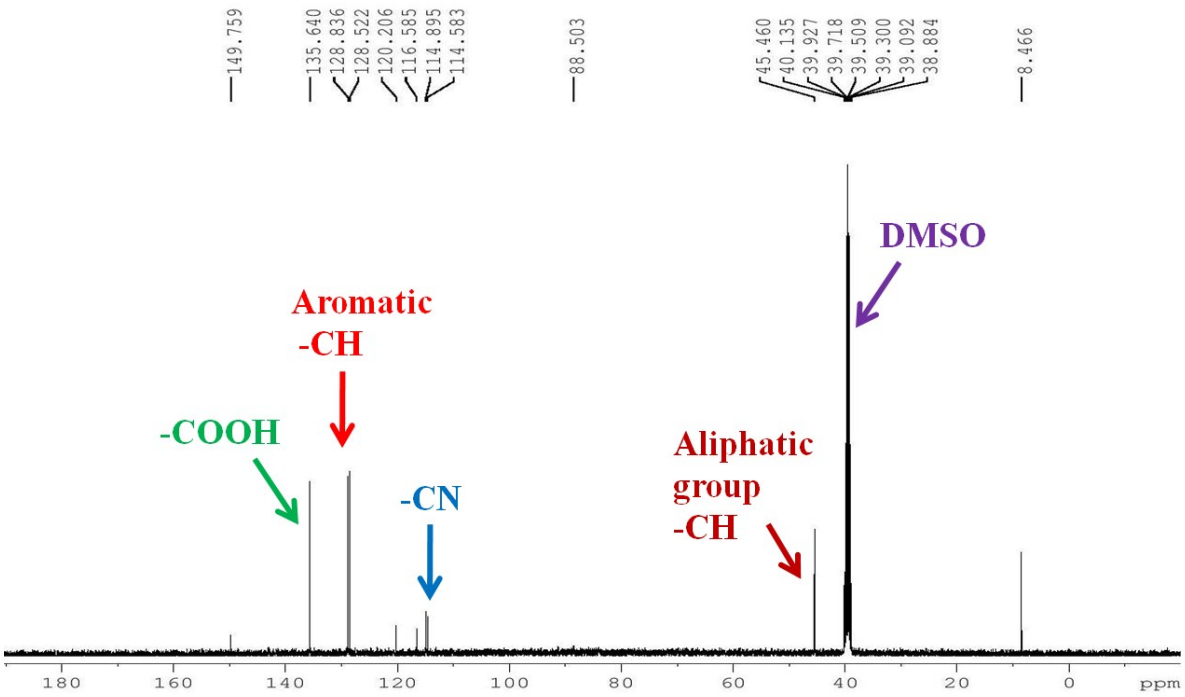


**Fig. S2.** *[13]C*-NMR spectrum of the 2-amino-3-[(3,4-dicyanophenyl)thio]propanoic acid.

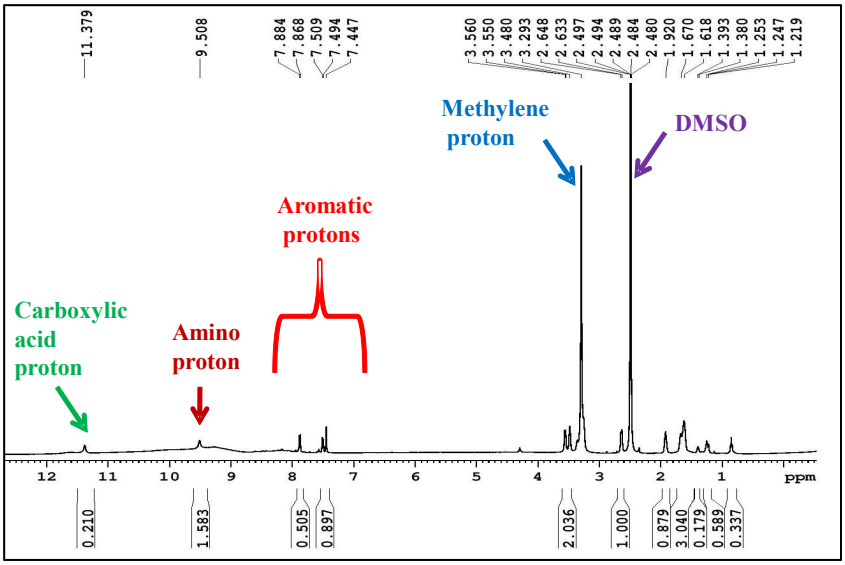


**Fig. S3.** $^{1}H$-NMR spectrum of CoTATPAPc**.**

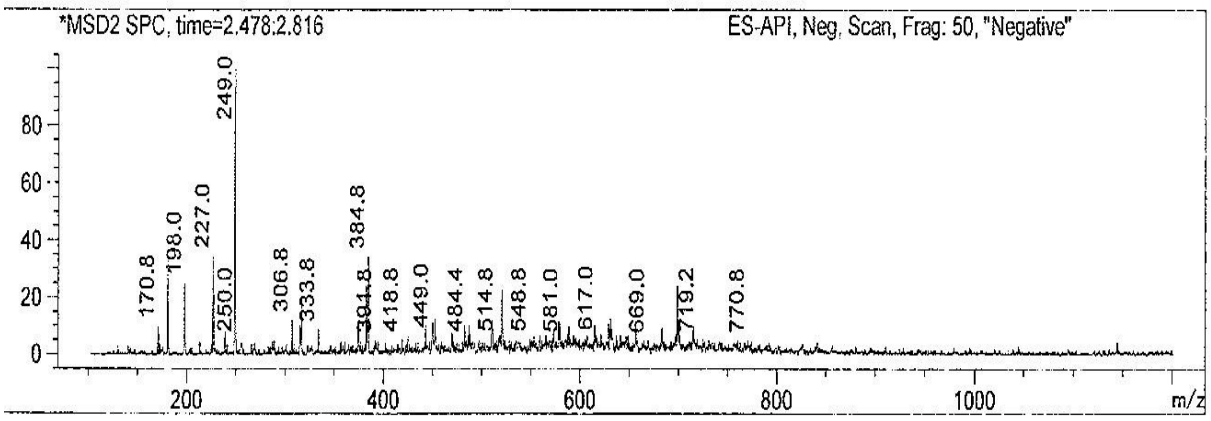


**Fig. S4.** Mass spectrum of the precursor compound (i).

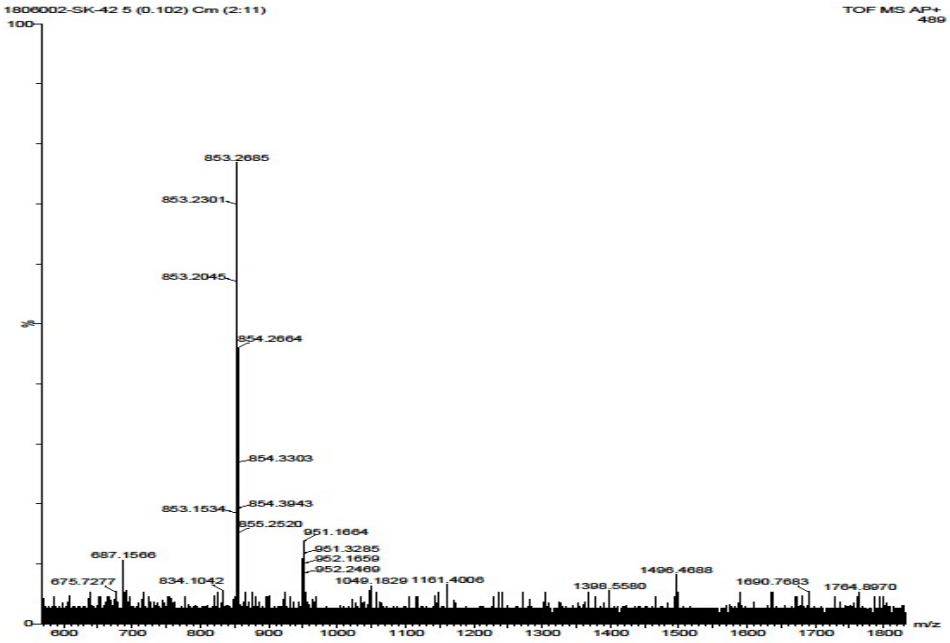


**Fig. S5.** Mass spectrum of the CoTATPAPc.

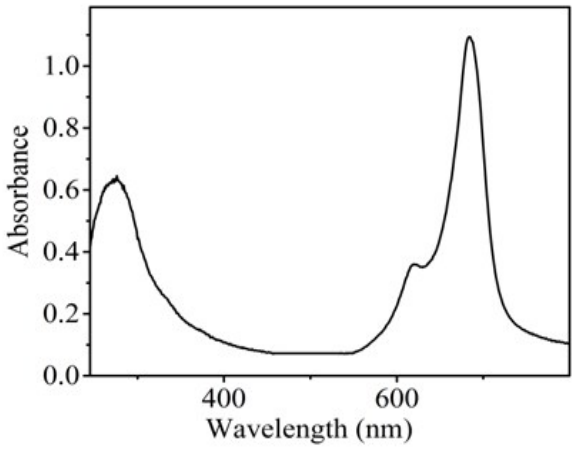


**Fig. S6.** UV–visible absorption spectrum of CoTATPAPc

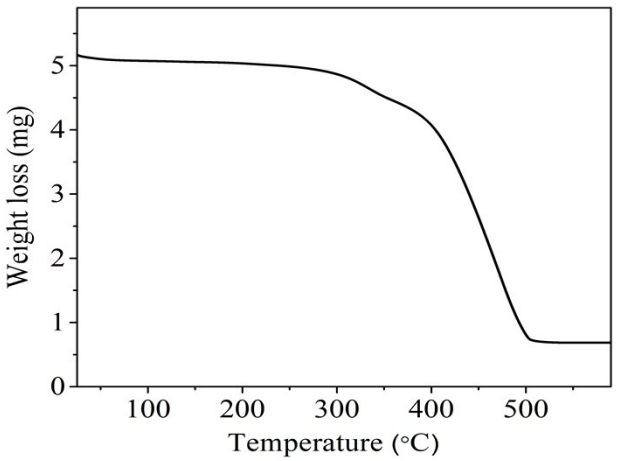


**Fig. S7.** TGA curve for the CoTATPAPc.

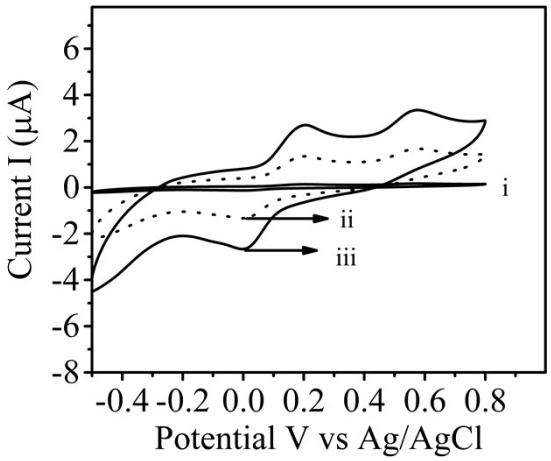


**Fig. S8**. Cyclic voltammogram curves for (i) Bare GCE, (ii) bare GCE with 140 nM PA and 4-AP and (iii) GCE/CoTATPAPc in 20 nM PA and 4-AP in PBS at 50 $mVs^{-1}$.

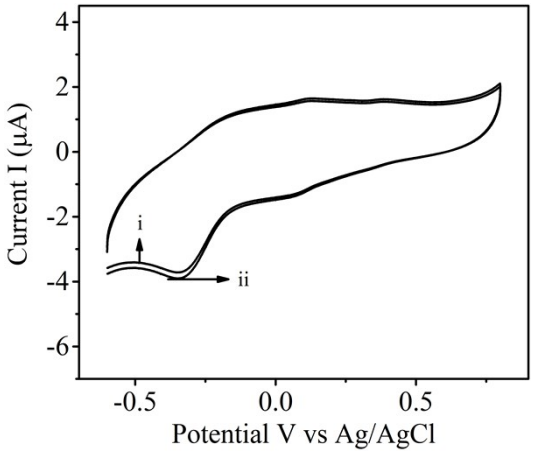


**Fig. S9**. Cyclic voltammograms of GCE/CoTATPAPc (i) 1st cycle and (ii) 100th cycle in PBS (pH=7) at scan rate 50 $mVs^{-1}$.